

CLARENCE POWELL LEASE 260.8 ACRES ±

DENNIS H. & MELLIE POWELL

GEORGE R. GORE

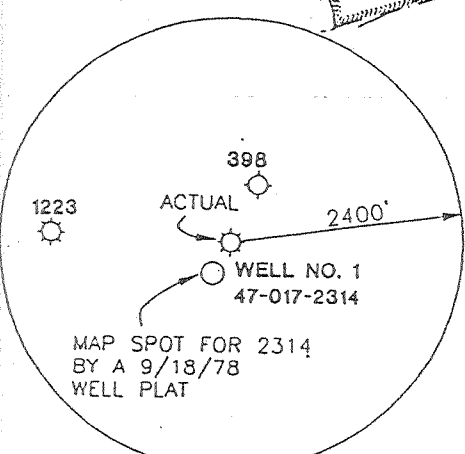
ROBERT C. & ARLENE BLAND

DENNIS H. & MELLIE POWELL
260 AC. ±
(SURFACE)

DENNIS H. & MELLIE POWELL

NORTH

LONGITUDE 80°40'00"
LAT. 39°16'37.5"



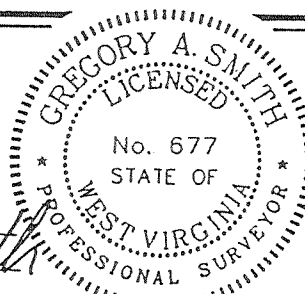
WELL NO. 1 47-017-2314

NOTES ON SURVEY

1. TIES TO CORNERS ARE BASED ON STATE PLANE GRID NORTH
2. TIES TO REFERENCES ARE BASED ON WV NORTH ZONE NAD '27.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 200 ON PAGE 532.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JANUARY, 2000.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.




P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JANUARY 26, 2000
 OPERATORS WELL NO. 1
 API WELL NO. 47 - 017 - 2314F
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4331P1 (80-62)
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 812' SCALE 1" = 800'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

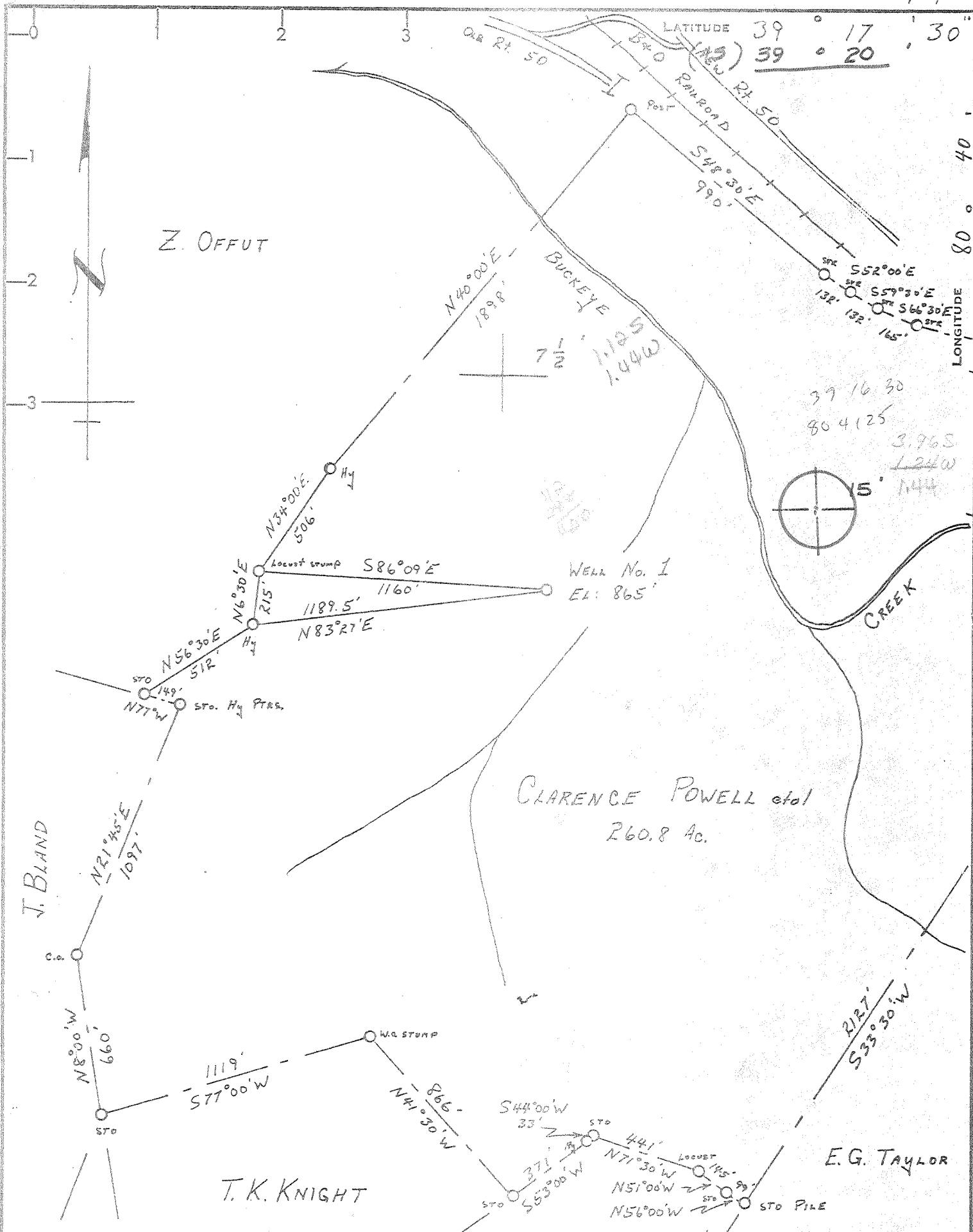


WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 861' WATERSHED TRIBUTARY OF BUCKEYE CREEK
 DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE SMITHBURG 7.5'
 SURFACE OWNER DENNIS H. & MELLIE POWELL ACREAGE 260.8
 ROYALTY OWNER DENNIS H. & MELLIE POWELL LEASE ACREAGE 260.8
 PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION GORDON
 ESTIMATED DEPTH 2700'

WELL OPERATOR POWELL OIL AND GAS DESIGNATED AGENT DENNIS POWELL
 ADDRESS RT. 1 BOX 10 WEST UNION, WV 26456 ADDRESS 304 STEWART STREET WEST UNION, WV 26456

COUNTY NAME DODD
PERMIT 2314F

FEB 25 2000



- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed J. B. Shuck, P.E. 4596

COMPANY KEY OIL COMPANY
 ADDRESS P.O. Box 239 GAENVILLE, W.VA. 26351
 FARM CLARENCE POWELL
 MAP _____ ACRES 260.8 LEASE NO. _____
 WELL (FARM) NO. ONE SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 865'
 QUADRANGLE SMITHBURG 7.5', CENTER POINT 15'
 COUNTY DODDRIDGE DISTRICT GRANT
 POINT OF PROVEN ELEVATION B.M. on train bridge El. 866'
 FILE NO. _____ DRAWING NO. _____
 DATE 9-18-78 SCALE 1"=500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. DODD-2314

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN. 47-017

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

AL 12

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Clarence Powell Operator Well No.: 1

LOCATION: Elevation: 865' Quadrangle: Smithburg

District: Grant County: Doddridge
Latitude: 5930 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 7620 Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Powell Oil & Gas

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>Route 1, Box 10</u> <u>West Union, WV 26456</u>				
Agent: <u>Dennis Powell</u>				
Inspector:				
Date Permit Issued:	<u>(SEE ORIGINAL WR-35)</u>			
Date Well Work Commenced: <u>04-19-00</u>				
Date Well Work Completed: <u>04-20-00</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				

Office of Oil & Gas
Permitting
JUL 03 2001
WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2307'-15'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 675 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 525 psig (surface pressure) after 48 Hours

Second producing formation Injun Pay zone depth (ft) 1656'-1708'
Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
Final open flow * MCF/d Final open flow * Bbl/d
Time of open flow between initial and final tests * Hours
Static rock Pressure * psig (surface pressure) after * Hours

*All Formations Co-mingled.

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: POWELL OIL & GAS
By: *D. Powell*
Date: 6-10-01

JUL 06 2001

D000 2314-F

PROCEDURE:

Set Bridge Plug @ 2906'.

Perforated 4-1/2" Casing @ 2450' w/4 Holes.

Cemented 4-1/2" Casing w/230 Sx. 50/50 Pozmix + 10% Salt & 1/4# Floseal.

Treated Gordon 2308'-2310.25' (10 Holes): 500 GA, 40,000# 20/40 Sand & 10,200 SCF N₂

Set Frac Plug @ 1760'.

Treated Injun 1662'-1706' (14 Holes): 750 GA, 50,000# 20/40 Sand & 100,000 SCF N₂



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle _____

Permit No. DODD-2314

Rotary X Oil _____
Cable _____ Gas X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Key Oil Company
Address West Union, WV
Farm Clarence Powell Acres 260.8
Location (waters) Buckeye Fork
Well No. 1 Elev. 865
District Grant County Doddridge
The surface of tract is owned in fee by _____
Clarence Powell, et al
Address West Union, WV
Mineral rights are owned by Clarence Powell, et al
Address West Union, WV
Drilling Commenced 11-8-78
Drilling Completed 11-11-78
Initial open flow _____ cu. ft. _____ bbls.
Final production 300,000 cu. ft. per day _____ bbls.
Well open 8 hrs. before test 1400 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	1485		
7			
5 1/2			
4 1/2	5080		
3			
2 1/2	4900		
Liners Used			

Well treatment details:

Attach copy of cementing record.

740 bbl 20,000 80/100 40,000 20/40 1st stage 4943-4950
4965-4973
594 bbl 10,000 80/100 35,000 20/40 2nd stage 4789-4794
596 bbl 10,000 80/100 35,000 20/40 3rd stage 3008-3012 3032-3044
Coal was encountered at _____ Feet _____ Inches
Fresh water 1160 Feet _____ Salt Water _____ Feet
Producing Sand Warren, Cedar Creek & Alexander Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay, Sand, Shale	Red	Rock	0	1550		
Big Lime			1550	1630		
Big Injun			1630	1710		
Shale			1710	2308		
Gordon			2308	2320		
Shale			2320	3006		
Warren			3006	3073		
Shale			3073	4785		
Cedar Creek			4785	4795		<i>Benson</i>
Shale			4795	4875		
Alexander			4875	4975		
Shale			4975	5304		

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
NOV - 8 1978
OIL & GAS DIVISION
DEPT. OF MINES

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE November 6, 1978

Surface Owner Clarence Powell, et al

Company Key Oil Company

Address West Union, WV

Address 106 Marie Street-West Union

Mineral Owner Clarence Powell, et al

Farm Clarence Powell Acres 260.8

Address West Union, WV

Location (waters) Buckeye Fork

Coal Owner same

Well No. 1 Elevation 866' 865'

Address same

District Grant County Doddridge

Coal Operator none

Quadrangle Smithburg

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations ~~have not commenced~~ by 3-9-79.

INSPECTOR TO BE NOTIFIED Paul Garrett

ADDRESS Clarksburg, WV

PHONE 622-3871

Robert F. Bell
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 12th of Sept. 1978 by Kenneth Powell, et al made to Key Oil Company and recorded on the 3rd day of October 1978 in Doddridge County, Book 104 Page 756

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name) Joe McLaughlin
Well Operator

Address 106 Marie Street
of West Union,
Well Operator City or Town
West Virginia 26456
State

CASH DEPOSIT
HELD BY TREASURER

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Fox Drilling Company NAME Joe McLaughlin
 ADDRESS Glenville, WV ADDRESS West Union, WV
 TELEPHONE 462-7353 TELEPHONE 873-2600
 ESTIMATED DEPTH OF COMPLETED WELL: 5500' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Alexander
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners			

APPROXIMATE FRESH WATER DEPTHS 325 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 1185 FEET
 IS COAL BEING MINED IN THE AREA? no BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title